ABSTRACT

USE OF N-ALLYL SUBSTITUTED AMINES AND THEIR SALTS AS BRIGHTENING AGENTS IN NICKEL PLATING BATHS

An aqueous acidic plating bath for the electrodeposition of a nickel or nickel alloy deposit. The bath includes nickel ions and an additive having the general formula:

 $H_2C=CHCH_2NR_1R_2$ or $[H_2C=CHCH_2N^{\dagger}R_1R_2R_3]_nX^{n-1}$

wherein R_1 , R_2 and R_3 are selected from the functional groups consisting or hydrogen, methyl, ethyl, propyl, allyl, propyn, propanediol and combinations thereof; and X^n is an n-valent inorganic or organic anion.